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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,984	06/27/2005	Tetsuji Hirano	8007-1096	9347
466 7590 03/03/2008 YOUNG & THOMPSON			EXAMINER	
209 Madison Street			HEINCER, LIAM J	
Suite 500 ALEXANDRI	A. VA 22314		ART UNIT	PAPER NUMBER
	,		1796	
			MAIL DATE	DELIVERY MODE
			03/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/540,984 HIRANO ET AL. Office Action Summary Examiner Art Unit Liam J. Heincer 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 June 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed.

6)⊠	Claim(s) <u>1-9</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/or election requirement.			
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9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

Α

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:				
 Certified copies of the priority documents have been received. 				
2 Certified copies of the priority documents have been received in Application No.				

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)	
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) X Information Disclosure Statement(s) (PTO/SE/08)	5) Notice of Informal Patent Application
Paper No(s)/Mail Date 6/2005 and 9/2005.	6) Other:

Application/Control Number: 10/540,984

Art Unit: 1796

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Noki et al. (JP 48-019398). Note: A translation is being used for JP 48-019398 and all citations will be directed towards this translation.

Considering Claims 1 and 2: Noki et al. teaches a bisphenol of the formula

(pg. 3) where Z_1 and Z_2 can both be $(CH_2)_1$

where I is an interger from 1 to 10 (pg. 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Application/Control Number: 10/540,984

Art Unit: 1796

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over lwasaki et al. (US Pat. 5,985,477) in view of Noki et al. (JP 48-019398). Note: A translation is being used for JP 48-019398 and all citations will be directed towards this translation.

Considering Claims 3 and 4: Iwasaki et al. teaches a sulfonated (2:2-12) polymer of the

compound with an alkylene linkage (2:35-60).

(2:30-35) where Ar is a bisphenol

lwasaki et al. does not teach the sulfonic acid groups as being attached to the alkylene linking group of the bisphenol. However, Noki et al. teaches a polymer (pg. 1)

comprising the bisphenol of the formula

3) where Z_1 and Z_2 can both be $(CH_2)_I$ where I is an interger from 1 to 10 (pg. 3).

Application/Control Number: 10/540,984

Art Unit: 1796

Iwasaki et al. and Noki et al. are combinable as they are concerned with the same field of endeavor, namely sulfonated polymers comprising bisphenol compounds. It would have been obvious to a person having ordinary skill in the art at the time of invention to have used the sulfonated bisphenol of Noki et al. in the polymer of Iwasaki et al. and the motivation to do so would have been, as Iwasaki et al. suggests, polymers with the sulfonic acid group attached to the alkylene linking group through an alkyl linkage have higher thermal stability than those with the sulfonic acid group being attached to the aryl ring (pg. 3-4).

Considering Claims 5 and 8: Iwasaki et al. teaches the polymers as having ionexchange/ion conducting properties (2:2-15).

<u>Considering Claims 6, 7, and 9</u>: Iwasaki et al. teaches a fuel cell comprising the polymer electrolyte membrane made from the polymer (2:13-15).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO Form 892.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liam J. Heincer whose telephone number is 571-270-3297. The examiner can normally be reached on Monday thru Friday 7:30 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a Application/Control Number: 10/540,984 Page 5

Art Unit: 1796

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796 29-Feb-08 LJH February 19, 2008